

# VST-60G Instructions

## GOODSON

**Tools and Supplies for Engine Builders**

156 Galewski Drive • P.O. Box 847 • Winona, MN 55987-0847  
Toll-Free 1-800-533-8010 • Local 507-452-1830 • www.goodson.com

### Please read instructions before using.

Note: This spring tester is already calibrated from the factory. These instructions will focus on setting the height for open or closed valve spring pressures. The Goodson VST-60G Valve Spring Tester can test springs up to 2" in diameter and 4 ½" in height and up to 600 lbs. of spring pressure.

- 1 The main unit and handle assembly. Unpack Goodson VST-60G Valve Spring Tester from box. Inspect for any damage that may have happened in shipping, and make sure you have all of the pieces shown in (figure 1).
- 2 Handle assembly has been removed for shipping purposes. Remove knob and flat washer from handle assembly (figure 2) and install handle assembly in the long slot and appropriate adjustment holes (figure 3). These adjustment holes are used to set the primary height of spring to be tested in rear of tester. Install flat washer and knob, hand tighten only (figure 4).
- 3 Securing the spring tester to your work-bench. The Goodson VST-60G Valve Spring Tester comes with (4) 5/16" mounting holes in the base (figure 5) to securely fasten to your work bench for dependable, accurate and safe use.
- 4 Bolt tester securely to your work bench using four 5/16" bolts (figure 5) (NOT SUPPLIED).

(continued on next page)



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5

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- 5 Height adjustment can be achieved by loosening the handle assembly knob located on the rear of tester (*figure 6*). There are 5 adjustment positions; each adjustment hole is  $\frac{3}{4}$ " in height adjustment. To fine tune the height locate the locking knob on the upper bell shaped pad (*figure 7*). Loosen the locking knob then turn the upper bell pad up or down (*figure 8*) to your desired height then tighten the locking knob finger tight.

The adjustable vertical height bell has 1" of adjustment to fine tune height requirement for spring being tested (*figure 8*)  
*note: Black locking knob secures position of final height adjustment*

- 6 Note that the height scale (*figure 10, 11, 12*) can be rotated to either side of the tester base for easy operation and viewing of the height scale. Height scale reads in  $\frac{1}{16}$ " increments (*figure 9*).
- 7 Once you have your adjustments made for the desired height you can now place the spring on the lower pad (*figure 13*) and grasp T-handle firmly, bring towards you lowering the top pad against the spring. Continue to compress spring until handle assembly goes over center and stops at set height.
- 8 Continue to test multiple springs and adjust height as required.

**(CAUTION: DO NOT EXCEED 600 PSI)**

**(CAUTION: CARE MUST BE TAKEN AS WITH TESTING SPRINGS THERE IS STORED ENERGY IN THE SPRING. IF YOU ARE TO REMOVE YOUR HAND FROM THE HANDLE CAUTION MUST BE TAKEN AS NOT TO BUMP HANDLE CAUSING HANDLE TO BE RELEASED FROM OVER CENTER. THIS MAY CAUSE SERIOUS INJURY).**



Figure 6



Figure 7



Figure 8



Figure 9



Figure 10



Figure 11



Figure 12



Figure 13

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